Contemporary Operational Environment

Programs and Resourcing Strategy

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Purpose

Describe the resourcing strategy for for the CTCs and CTC OPFORs to adequately replicate the variables and capabilities inherent in the contemporary operational environment.

Background

- **Ongoing OPFOR Modernization effort**
- **White Paper defined variables and associated capabilities to replicate contemporary operational environment**
- **CTC FAA process initially linked both efforts to funding**
- **OPFOR Directorate refined capabilities and initial funding estimates**

Facts

- **Ongoing OPFOR Modernization has not allowed OPFOR to keep pace**
- **All OPFOR programs subject to being billpayers**
- **Contemporary OE exacerbates shortfalls**
- **21 identified capabilities include materiel (RDA), associated OMA tail, and OMA costs; only 3 (OSV, OSTV-T, ASET IV) funded**
- **Program addresses all BOS**
- **Realistic funding window is FY 04-09 POM**

Bottom Line: We have an approximate one-year window to validate requirements and compete for funding.

Overall Priorities

- Consider both projected threat timelines and status of ongoing modernization
- Funding estimates based upon a variety of factors
  - Existing program costs
  - Information provided from CTCs and other agencies

OE CAPABILITIES RECAP

	MNS	ORD	TMA	POM	UFR
OSV	Yes	Yes	Yes	Yes	Yes
OSTV	Yes	Yes	Yes	Yes	No
OSWV	Yes	Yes	Yes	No	No
AD (ASET IV)	No	Yes	Yes	No	Yes
Aviation	Yes	Draft	Yes	No	No
All Other	No	No	No	No	No

OE Requirements for Mini-POM MDEP Reviews (Unfunded) ($.000)

DCSINT Priority	Issue	Center	FY 03-07 Cost *
1	Camouflage, Concealment & Deception (CC&D) Plt	NTC, JRTC, CMTC	0.706
2	Counter Measures	NTC, JRTC, CMTC	6.132
3	CTC Tactical Engagement Sys (TES)	All CTCs	3.300
4	OPFOR DTLOMS Study	NTC, JRTC, CMTC	1.000
5	OPFOR Surrogate Wheeled Veh (OSWV)	NTC, JRTC, CMTC	52.580
6.1	Infantry Co	JRTC & CMTC	11.840
6.2	Engineer Co	NTC & JRTC	27.290
6.3	Engineer Bn	CMTC	40.970
7	COB	NTC & JRTC	7.350
8	Information Warfare Teams	All CTCs	4.000
9	OPFOR C3 (Cmd Ctrl & Commo) Systems	NTC & CMTC	2.613
10	Media Teams	All CTCs	1.440
11	OPFOR UAV Systems	NTC, JRTC, CMTC	16.800
12	OPFOR GPS Electronic Attack	NTC, JRTC, CMTC	4.350
13	OPFOR Information Warfare	NTC, JRTC, CMTC	4.350
14	OPFOR Infantry Weapons	NTC, JRTC, CMTC	20.960
15	OPFOR Avn Rotary Wing (RW)	NTC, JRTC, CMTC	63.520
16	OPFOR Man Portable Air Defense SA16/SA18 (MANPAD)	NTC, JRTC, CMTC	14.640
17	Handheld Forward Looking Infrared Radar (FLIR)	JRTC	0.100
18	OPFOR Directed Energy Weapons (DEW)	NTC, JRTC, CMTC	1.650
	TOTAL		***285.591***

* OMA $150.265 / OPA, RDTE $135.326

Camouflage, Concealment and Deception Platoon

- Priority 1 (FY03-04)
- Multispectral decoys
  - 10 Tank
  - 10 IFV
  - 18 SP Artillery
- NTC, JRTC, CMTC
- Associated OMA bill and OPTEMPO considerations
- $486K estimated cost

Replicates a capability available to opponents to co sensors and precision munitions, increase survivabi surprise. Stresses BLUFOR reconnaissance.

OPFOR Countermeasures

- Priority 2 (FY03-05)
- Multiple CM
  - Vehicle-level
  - Warning/Detectors
  - Active and passive
- NTC (223), CMTC (177), JRTC (77)
- Associated OMA bill
- TES options TBD
- $4.38M estimated cost

Replicates a capability available to opponents to co
sensors and precision munitions, increase survivabi

CTC Tactical Engagement System (TES) Performance Data

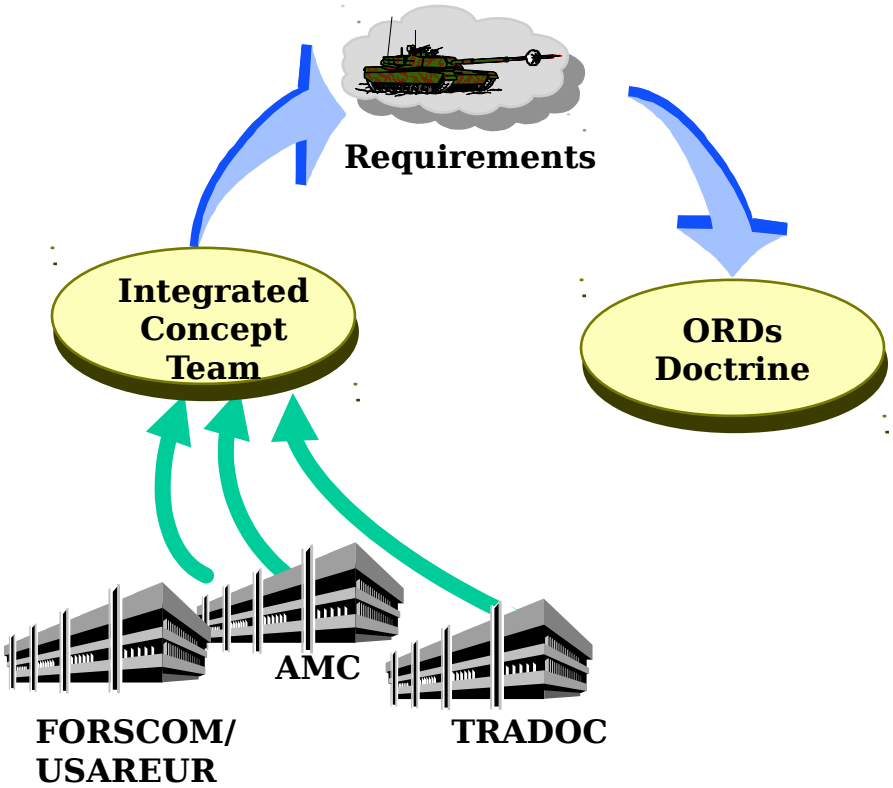
(AH-64A/D)
Interim Tables; Manual Assessment Only

Weapon	Code #	P_k ASE OFF	**P_k 144 (IR) ON	**P_k CHAFF ON	**P_k 136 (Radar) ON	**Flares Deployed*
23MM ZSU23-4	22	020	020	005	005	020
25MM	22	020	020	020	020	020
30MM HIND/BMP-2	23	010	010	010	010	010
HVY MG M2, M85	24	003	003	003	003	003
STINGER	26	080	080	080	080	030
Small Arms M16/M60	27	001	001	001	001	001
SA-14	33	025	005	025	025	005
SA-7		020	005	020	020	005
SA-16		035	005	035	035	005
SA-18		070	060	070	070	040
SA-9		025	005	025	025	005
SA-13		050	045	050	050	010
SA-8		070	070	050	005	070
SA-15		080	080	060	005	080
SA-19 (day only)		070	060	050	005	070

- **Priority 3 (FY03-07)**
- **All CTCs**
- **Data generation and inp**
- **$3.3M estimated OMA c**

Ensures BLUFOR/OPFOR performance data used in provides realistic training results.

CTC Operational Environment DTLOMS Analysis



- Priority 4 (FY03 or sooner)
- 4 separate studies
- One-year timeline
- ICT is key
- Review current CTC DTLOMS
- Contractor-supported
- $1M estimated cost ($250K per

A means to set the baseline for future CTC Operational Enviro replication.

OPFOR Surrogate Wheeled Vehicle (OSWV)

	NTC	CMTC	JRTC
OSWV-AAT	28	28	20
OSWV-AAT (Retrofitted)	12	12	0
OSWV-AR	0	10	4
OSWV-AR (Retrofitted)	20	10	16
OSWV-TAT	12	18	9
OSWV-RSTA	4	4	2
NLOS-AT	3	3	0

- Priority 5 (FY03-07)
- HMMWV platform
- Multiple variants
  - Armored Reconnaissance
  - RSTA
  - Armored Anti-Tank
  - Towed Anti-Tank
  - Non-Line-Of-Sight Anti-Tank
- Includes retrofit and new syste
- NTC, JRTC, CMTC
- Associated OMA bill
- Validated ORD
- FY01 Study
- $38.2M estimated cost

Replicates a range of fielded capabilities available t for reconnaissance and anti-tank missions.

OPFOR Infantry Company

- Priority 6.1 (FY03-07)
- Additional augmentee co
- 10 rotations per year
- Travel plus incidental su
- JRTC, CMTC
- $11.84M estimated cost

Replicates doctrinal numbers of infantry dismounts contemporary operational environment.

OPFOR Engineer Company

- Priority 6.2 (FY03-07)
- Additional augmentee co
- 10 rotations per year
- Travel, transportation plus incidental supplies
- NTC, JRTC
- $27.29 estimated cost

Replicates doctrinal OPFOR engineer capabilities expected in a contemporary operational environment to provide proper training to BLUFOR rotational units

OPFOR Engineer Battalion

- Priority 6.3 (FY03-07)
- CMTC has no organic en
- Augmentee battalion
- Travel, transportation plus incidental supplies
- CMTC
- $40.97M estimated cost

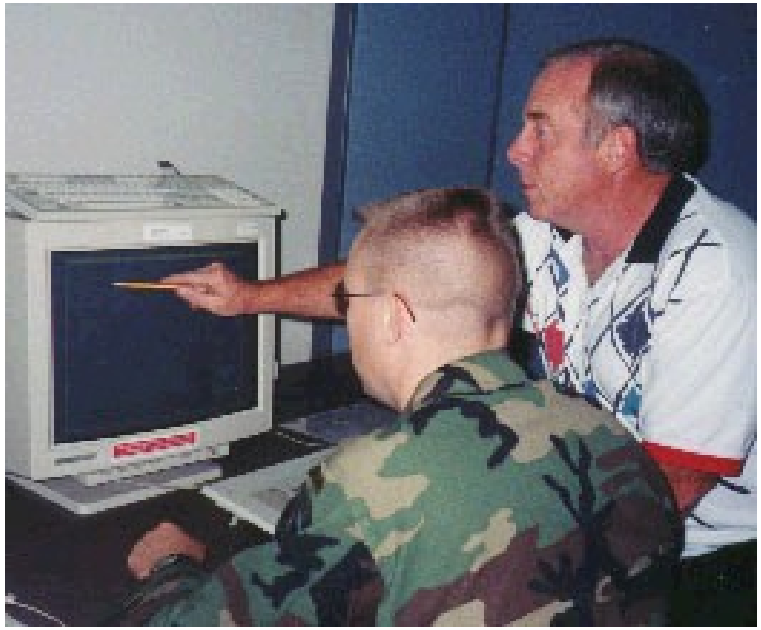
Replicates doctrinal OPFOR engineer capabilities expected in a contemporary operational environment to provide proper training to BLUFOR rotational units at CMTC

Civilians On The Battlefield

- **Priority 7 (FY03-07)**
- **Supplements current CO**
- **Proportional to CTC miss**
- **Includes non-English spe COB**
- **NTC, JRTC**
- **CMTC already funded**
- **$7.35M estimated cost**

Replicates the entire spectrum of non-military perso be encountered in the contemporary operational en allowing more OPTEMPO flexibility.

Information Warfare Team



- **Priority 8 (FY03-07)**
- **IW planners**
- **All CTCs**
  - **NTC 6**
  - **CMTC 6**
  - **JRTC 2**
  - **BCTP 2**
- **$4M estimated cost**

Plans, integrates and implements full-spectrum IW into CTC operational environment and OPFOR opera to provide realistic training to BLUFOR.

OPFOR Command, Control and Communications (C^3) Enhancements

- Priority 9 (FY03-05)
- Exact mix TBD
  - Frequency Hopping
  - Multichannel
  - SATCOM
  - Cellular
- NTC, JRTC, CMTC
- Associated OMA bill
- $2.25M estimated cost

Replicates capabilities available to opponents in the for secure, redundant communications linked to sen weapons systems for rapid precision attack.

Media Teams

- **Priority 10 (FY03-07)**
- **3-person teams**
- **All CTCs**
- **$1.8M estimated cost**

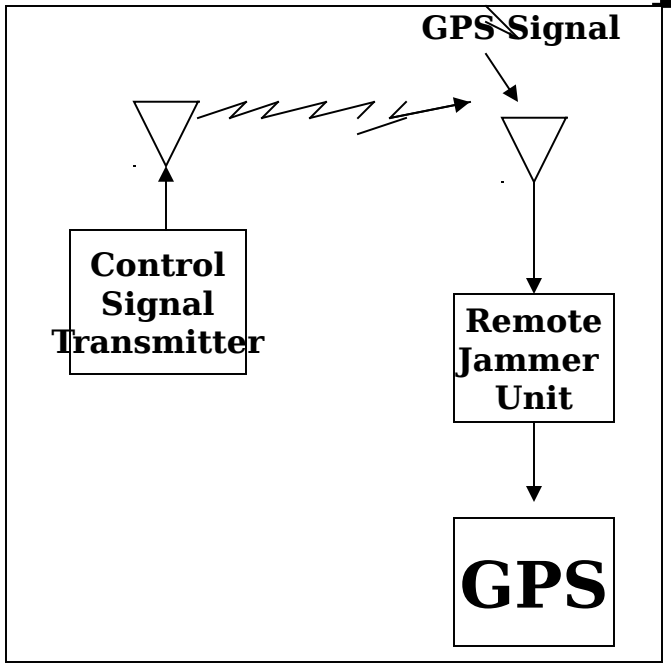
Replicates an environmental variable critical to
environment focused on training adaptive Army lea
will portray the in-the-box media presence, as we
the scenarios to create desired training effects

OPFOR Unmanned Aerial Vehicle (UAV)

- Priority 11 (FY03-04)
- Ground control station
- 3 Air vehicles
- Processing facility
- Multiple payloads
- NTC, JRTC, CMTC
- Associated OMA bill
- OPFOR Aviation ORD
- FY01 study
- $6.9M estimated cost

Replicates a capability available to opponents to pro real-time battlefield intelligence and rapid targeting a critical training target for BLUFOR air defense.

OPFOR Global Positioning System-Electronic Attack (GPS-EA)



- Priority 12 (FY03-04)
- Platform, control, and VISMOD components
- NTC, JRTC, CMTC
- Associated OMA bill
- $3M estimated cost

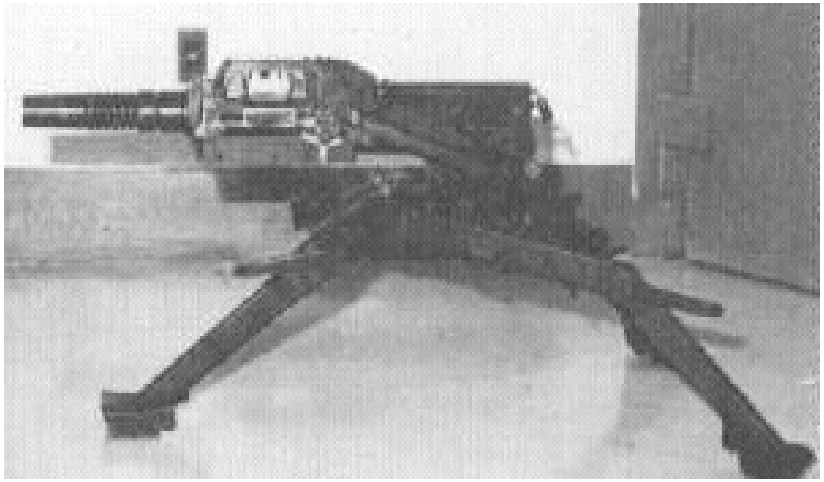
Replicates a capability to conduct simulated electronic attack of BLUFOR GPS. This capability is projected to be available to potential threat forces in the contemporary operational environment. These forces realize the need to negate U.S. reliance on real-time, accurate position location data for battlefield decision-making and employment of precision munitions.

OPFOR Information Warfare

- **Priority 13 (FY03-04)**
- **Concept similar to GPS-I**
- **NTC, JRTC, CMTC**
- **Associated OMA bill**
- **$3M estimated cost**

Replicates potential threat capabilities to conduct of BLUFOR C⁴ISR as well other IW activities .

OPFOR Infantry Weapons



JRTC	130
NTC	100
CMTC	100

- Priority 14 (FY03-04)
- Systems include:
  - Manpack ATGM
  - RPG
  - Recoilless Rifles
  - Automatic Grenade Launc
  - Flame Weapons
- NTC, JRTC, CMTC
- Associated OMA bill
- $16.5M estimated cost

Replicates infantry weapons systems available to potential adversaries under-represented at the CTCs in relation to what U.S. forces may enco in the contemporary operational environment.

OPFOR Aviation-Rotary Wing

- Priority 15 (FY03-07)
- Attack and Assault (Utility) Platforms
- NTC, JRTC, CMTC
- Associated OMA bill
- OPFOR Aviation ORD
- FY01study
- $48M estimated cost

Replicates helicopter capabilities available to oppor for day/night, attack, lift, and RSTA roles while prov realistic targets for BLUFOR air defenders.

OPFOR Manportable Air Defense Systems (MANPADS)

- Priority 16 (FY04-06)
- NTC, JRTC, CMTC
- 75 per CTC
- Associated OMA bill
- $11.25M estimated cost

Replicates air defense surface-to-air missile systems available
adversaries and presently under-represented at the CTCs in re
U.S. forces may encounter in the contemporary operational en

OPFOR Hand-Held Forward Looking Infrared Sensor

- Priority 17 (FY04)
- JRTC
- $100K estimated cost

Replicates capabilities available to light forces in the operational environment for day/night, all weather R

OPFOR Directed Energy Weapons (DEW)

- Priority 18 (FY07)
- NTC, JRTC, CMTC
- Solution TBD
- Associated OMA bill
- $1.5M estimated cost

Replicates technological capabilities available to op mid-term for optical and sensor blinding and radiof and burnout.

Issues:

- **Comments from Working Group.**
- **Completion of DTLOMS analysis.**
- **Preparation and staffing of requirements documentation.**